

Citation 7

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Applicants: NEW OJI PAPER CO LTD
Title of the Invention: Tacky sheet

Claim 1 of Citation 7

A tacky sheet in which a peelable sheet, an adhesive layer and a surface substrate are laminated, wherein the surface substrate can be disintegrated using an aqueous alkali solution, wherein an adhesive constituting the adhesive layer is a copolymer which is prepared by neutralizing with an alkaline material a carboxyl acid modified rosin containing acrylic ester copolymer consisting of (a) 5 to 40 % by weight of a carboxylic acid modified rosin ester monomer, (b) 5 to 40 % by weight of (poly)ethyleneglycol (meth)acrylate monomer, (c) 30 to 60 % by weight of C4-C18 alkyl (meth)acrylate, (d) 5 to 20 % by weight of a carboxylic acid containing ethylenically unsaturated monomer, and (e) a monomer which is copolymerizable with (a), (b), (c) and (d); and wherein the adhesive can be disintegrated against water or an aqueous alkaline solution.

Claim 2

The tacky sheet according to Claim 1, wherein the peelable sheet is made from a material which can be disintegrated using water or an aqueous alkaline solution.

Summary of Citation 7

Paragraph [0019] to [0024]

(b) (Poly)ethyleneglycol (meth)acrylate monomer can be a monomer having the formula: $\text{CH}_2=\text{C}(\text{R}_1)-\text{CO}-(\text{OCH}_2-\text{CH}_2)_n-\text{OR}_2$ wherein R_1 is methyl or H, R_2 is methyl, phenyl, acryloyl or methacryloyl, n is integer of 1 to 10.

(c) C4-C18 alkyl (meth)acrylate can be butyl (meth)acrylate, hexyl (meth)acrylate, octyl (meth)acrylate, 2-ethyl hexyl (meth)acrylate, stearyl (meth)acrylate, etc.

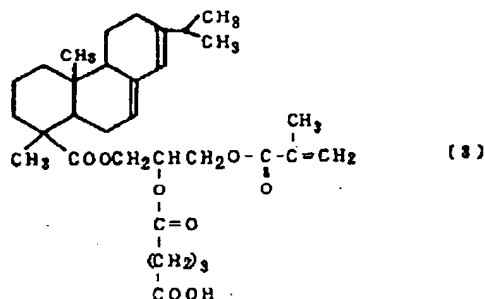
(d) A carboxylic acid containing ethylenically unsaturated monomer can be acrylic acid, methacrylic acid, crotonic acid, maleic acid, etc.

(e) A monomer which is copolymerizable with (a), (b), (c) and (d) can be glycidyl (meth)acrylate, (meth)acrylamide, styrene, ethylene, etc.

Citation 7 (cont.)

Example 1

An adhesive was prepared by polymerizing an emulsified monomer mixture comprising 60 parts of carboxylic acid modified rosin ester having formula (3); 60 parts of methoxy diethyleneglycol methacrylate; 100 parts of butyl acrylate; 100 parts of 2-ethylhexyl acrylate; 40 parts of acrylic acid; 40 parts of dimethylaminoethyl methacrylate; 6 parts of surfactant; 150 parts of deionized water.



Example 2

An adhesive was prepared by the same process as Example 1, provided that carboxylic acid modified rosin ester having formula (4) was used instead of (3).

